

Appendix E SSI Summaries

1. Stand Susceptibility Index

a. SSI with climate factor adjustment

- i. Using HWP's recently approved forest inventory, SRD compiled the Stand Susceptibility Index and Climate Factor rating for each stand on the FMA. The following table is a listing of the 40 FMA operating compartments which were ranked the highest in the FMA according to the compartment area weighted average SSI.

Table A 10. Compartment Ranking Based on SSI with Climate Factor Adjustment

Working Circle	Compartment Number	Compartment SSI+CF Ranking	Working Circle	Compartment Number	Compartment SSI+CF Ranking
Berland	07	1	Embarras	03	21
Berland	20	2	Berland	18	22
McLeod	19	3	Embarras	04	23
Berland	22	4	Berland	26	24
Athabasca	30	5	Embarras	02	25
Athabasca	28	6	Berland	06	26
Berland	23	7	Marlboro	13	27
Marlboro	04	8	Athabasca	27	28
Embarras	09	9	Athabasca	24	29
Athabasca	26	10	Berland	29	30
Berland	11	11	Berland	21	31
Embarras	12	12	Marlboro	16	32
Berland	12	13	Berland	24	33
Berland	28	14	McLeod	25	34
Berland	01	15	Athabasca	33	35
Berland	30	16	Embarras	10	36
Athabasca	22	17	Embarras	15	37
McLeod	18	18	Athabasca	15	38
Embarras	07	19	McLeod	23	39
Berland	09	20	McLeod	21	40

b. SSI with climate factor adjustment (40+)

- i. The following table is a listing of the 40 FMA operating compartments which were ranked the highest in the FMA according to the compartment area weighted average SSI using only stands that had an SSI rating of 40 or greater:

Table A 11. Compartment Ranking Based on SSI with Climate Factor Adjustment (40+)

Working Circle	Compartment Number	Compartment SSI+CF >40 Ranking	Working Circle	Compartment Number	Compartment SSI+CF >40 Ranking
Berland	20	1	Athabasca	24	21
Berland	07	2	McLeod	18	22
Berland	22	3	Marlboro	13	23
Berland	23	4	McLeod	25	24
McLeod	19	5	Berland	06	25
Berland	12	6	Athabasca	31	26
Berland	11	7	Berland	33	27
Athabasca	30	8	Athabasca	32	28
Berland	28	9	Athabasca	33	29



Athabasca	26	10
Athabasca	28	11
Embarras	09	12
Berland	18	13
Berland	30	14
Berland	26	15
Athabasca	22	16
Berland	24	17
Embarras	03	18
Berland	29	19
Berland	21	20

Embarras	08	30
Berland	25	31
Athabasca	19	32
Berland	27	33
McLeod	21	34
Athabasca	29	35
Embarras	07	36
Marlboro	14	37
Marlboro	16	38
Embarras	10	39
Athabasca	27	40

c. Connectivity

- i. HWP has evaluated the connectivity model provided by SRD which considers SSI and adjacency to other high SSI stands. The following table is a listing of the 40 FMA operating compartments which were ranked the highest in the FMA according to the compartment area weighted average connectivity value (fieldname = sum_area_f):

Table A 12. Compartment Ranking Based on MPB Connectivity Rating

Working Circle	Compartment Number	Compartment Connectivity Ranking
Embarras	15	1
Berland	01	2
Athabasca	30	3
Berland	07	4
Embarras	20	5
Marlboro	04	6
Berland	20	7
Embarras	12	8
Embarras	07	9
Embarras	04	10
Berland	23	11
Athabasca	28	12
Marlboro	16	13
Athabasca	01	14
McLeod	19	15
Berland	09	16
Marlboro	13	17
Berland	12	18
Berland	22	19
Embarras	22	20

Working Circle	Compartment Number	Compartment Connectivity Ranking
Embarras	19	21
McLeod	23	22
McLeod	04	23
McLeod	18	24
Embarras	21	25
Embarras	05	26
Embarras	18	27
McLeod	03	28
Athabasca	22	29
Berland	11	30
Berland	29	31
Berland	24	32
Athabasca	33	33
Embarras	02	34
Marlboro	18	35
Berland	28	36
Berland	06	37
Athabasca	27	38
McLeod	12	39
Marlboro	02	40



- d. SSI with a climate factor adjustment (40+) & Connectivity
- i. The following table is a listing of the 40 FMA operating compartments which were ranked the highest in the FMA based on both the compartment area weighted average SSI (using only stands that had an SSI rating of 40 or greater) and the connectivity values:

Table A 13. Compartment Ranking Based on SSI with Climate Factor Adjustment (40+) & Connectivity

Working Circle	Compartment Number	Compartment SSI+CF > 40 + Connectivity Ranking	Working Circle	Compartment Number	Compartment SSI+CF > 40 + Connectivity Ranking
Berland	07	1	Athabasca	26	21
Berland	20	2	Berland	30	22
Athabasca	30	3	Berland	26	23
Berland	23	4	Berland	06	24
McLeod	19	5	Athabasca	33	25
Berland	22	6	Berland	18	26
Athabasca	28	7	Athabasca	24	27
Berland	12	8	Embarras	03	28
Berland	11	9	McLeod	25	29
Marlboro	13	10	Athabasca	27	30
Berland	28	11	McLeod	23	31
Athabasca	22	12	Berland	21	32
Embarras	07	13	Marlboro	02	33
McLeod	18	14	Athabasca	32	34
Marlboro	04	15	Marlboro	18	35
Berland	01	16	Embarras	10	36
Berland	24	17	Berland	33	37
Berland	29	18	Athabasca	21	38
Marlboro	16	19	Embarras	08	39
Embarras	09	20	Athabasca	31	40

- e. Compartment Risk - As directed by SRD, the Compartment Risk was assigned as follows:
- i. The Athabasca, Berland and Marlboro Working Circles are rated as high compartment risk.
- ii. The Embarras and McLeod Working Circles are rated as having moderate compartment risk.